TECHNISCHES DATENBLATT

Purolite™ Puromet™ MTA1030

Polystyrol makroporös, Schwach basisches Anionenharz, Freie Base Form

EINSATZGEBIETE

- Spülwasser und Recycling

VORTEILE

- hohe nutzbare Kapazität
- überragende Ablöbarkeit von TOC während der Regeneration
- exzellente Widerstandfähigkeit gegen osmotischen Schock
- physikalisch beständig gegenüber mechanischen Belastungen
- gute Waschcharakteristik

TYPISCHE VERPACKUNGEN

- 1 CF Sack
- 25 L Sack
- 5 CF Papptrommel
- 1 M³ Big bag
- 42 CF Supersack
- Tanklaster (NA only)

TYPISCHE PHYSIKALISCHE & CHEMISCHE EIGENSCHAFTEN:

Polymerstruktur	makroporöses Polystyrol quervernetzt mit Divinylbenzol
Aussehen	Spherische Kugeln
Funktionelle Gruppe	tertiäres Amin
Ionische Form	freie Base
Totalkapazität (min.)	1.5 eq/L (32.8 Kgr/ft³) (freie Base Form)
stark basische Kapazität	12 - 20 %
Wassergehalt	51 - 58 % (Cl-)
Partikelgrößen Bereich	300 - 1200 µm
< 300 µm (max.)	1 %
Uniformitätskoeffizient (max)	1.7
reversible Volumenänderung, FB → Cl^- (max.)	25 %
Spezifische Dichte	1.04
Schüttgewicht (ca.)	645 - 675 g/l (40.3 - 42.2 lb/ft³)
Temperaturlimit	100 °C (212.0 °F) (Cl-)
Temperaturlimit	60 °C (140.0 °F) (freie Base Form)

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Hydraulische Eigenschaften

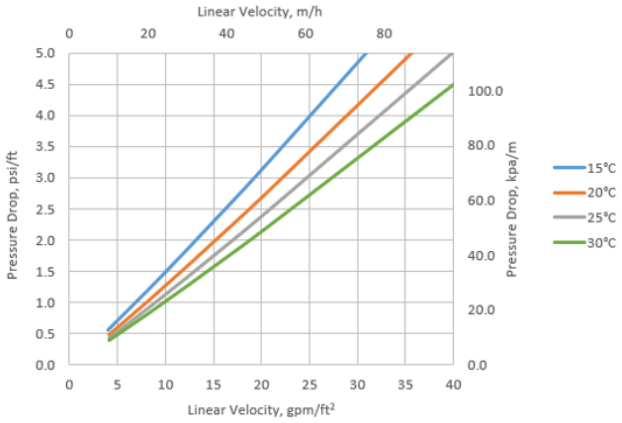
PRESSURE DROP

The pressure drop across a bed of ion exchange resin depends on the particle size distribution, bed depth, and voids volume of the exchange material, as well as on the flow rate and viscosity of the influent solution. Factors affecting any of these parameters—such as the presence of particulate matter filtered out by the bed, abnormal compressibility of the resin, or the incomplete classification of the bed—will have an adverse effect, and result in an increased head loss. Depending on the quality of the influent water, the application and the design of the plant, service flow rates may vary from 10 to 40 BV/h.

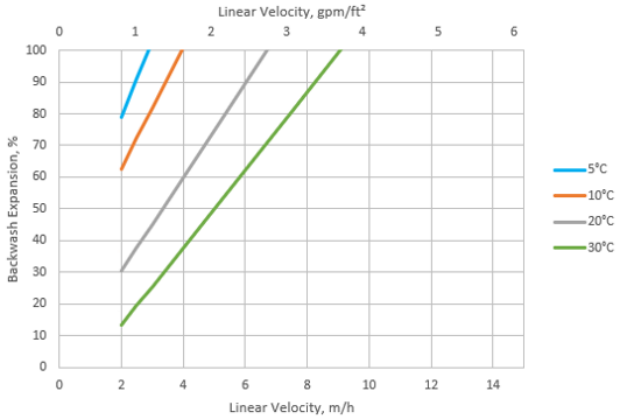
BACKWASH

During up-flow backwash, the resin bed should be expanded in volume between 50 and 70% for at least 10 to 15 minutes. This operation will free particulate matter, clear the bed of bubbles and voids, and reclassify the resin particles ensuring minimum resistance to flow. When first putting into service, approximately 30 minutes of expansion is usually sufficient to properly classify the bed. It is important to note that bed expansion increases with flow rate and decreases with influent fluid temperature. Caution must be taken to avoid loss of resin through the top of the vessel by over expansion of the bed.

PRESSURE DROP ACROSS RESIN BED



BACKWASH EXPANSION OF RESIN BED



Ecolab is a global developer, manufacturer, and supplier of Purolite™ Resins including ion exchange, catalyst adsorbent and advanced polymers that make the world cleaner and healthier.

www.puroliteresins.com

We're ready to solve your process challenges.

For further information on products and services, visit www.puroliteresins.com or complete a Contact Us form via PuroliteResins.com/contact-us or use the QR code.

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